

Name: \_\_\_\_\_

**at1110paper\_\_practice\_\_test (v20)**

1. Expand the following expression into standard form.

$$(7x + 8)(4x + 3)$$

2. Expand the following expression into standard form.

$$(2x + 9)^2$$

3. Factor the expression.

$$x^2 + 5x + 6$$

4. Solve the equation with factoring by grouping.

$$20x^2 - 15x - 8x + 6 = 0$$

5. Factor the expression.

$$25x^2 - 64$$

6. Solve the equation.

$$9x^2 - 33x - 66 = 4x^2 + 5x - 3$$

7. Solve the equation.

$$(9x - 5)(7x - 6) = 0$$

8. Expand the following expression into standard form.

$$(9x + 7)(9x - 7)$$